

WEST**Freeform Search****Database:**

US Patents Full-Text Database
 US Pre-Grant Publication Full-Text Database
 JPO Abstracts Database
 EPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

13 and degus\$3.as.

Term:**Display:**10 Documents in Display Format: - Starting with Number 1**Generate:** Hit List Hit Count Side by Side Image

Search **Clear** **Help** **Logout** **Interrupt**

Main Menu **Show S Numbers** **Edit S Numbers** **Preferences** **Cases**

Search History**DATE:** Friday, November 21, 2003 [Printable Copy](#) [Create Case](#)**Set Name** Query
side by side**Hit Count** **Set Name**
result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

<u>L5</u>	13 and degus\$3.as.	16	<u>L5</u>
<u>L4</u>	L3 and (degus\$3).as. or degus\$3.asnm.	1779	<u>L4</u>
<u>L3</u>	L2 and (prepar\$5 or proces\$3 or produc\$4)	21	<u>L3</u>
<u>L2</u>	L1 and (panb\$3 or pand\$3 or panc\$3 or ilvd\$3)	21	<u>L2</u>
<u>L1</u>	PANTOTH\$5 AND (CORYNEFOR\$4 OR GLUTAMICu\$4 OR CORYNEBACTe\$5) AND (poxb\$3 or (pyruvat\$3 same oxidas\$4))	57	<u>L1</u>

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 16 returned.****1. Document ID: US 20030124682 A1**

L5: Entry 1 of 16

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030124682

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030124682 A1

TITLE: Process for the preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hermann, Thomas	Bielefeld		DE	
Witteck, Birgit	Dissen		DE	
Rieping, Mechthild	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/193, 435/252.33, 435/320.1, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KUDC	Drawn Desc
Image												

2. Document ID: US 20030124681 A1

L5: Entry 2 of 16

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030124681

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030124681 A1

TITLE: Process for the preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hermann, Thomas	Bielefeld		DE	
Witteck, Birgit	Dissen		DE	
Rieping, Mechthild	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/252.3, 435/320.1, 435/488, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc
Image												

3. Document ID: US 20030119151 A1

L5: Entry 3 of 16

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119151

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030119151 A1

TITLE: Process for the preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hermann, Thomas	Bielefeld		DE	
Witteck, Birgit	Dissen		DE	
Rieping, Mechthild	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/193, 435/252.33, 435/320.1, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

4. Document ID: US 20030109012 A1

L5: Entry 4 of 16

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030109012

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030109012 A1

TITLE: Process for the preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hermann, Thomas	Bielefeld		DE	
Witteck, Birgit	Dissen		DE	
Rieping, Mechthild	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/252.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

5. Document ID: US 20030104583 A1

L5: Entry 5 of 16

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030104583

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030104583 A1

TITLE: Process for the preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hermann, Thomas	Bielefeld		DE	
Witteck, Birgit	Dissen		DE	
Rieping, Mechthild	Bielefeld		DE	
Kruse, Daniela	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/252.33, 435/320.1, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KOMC	Drawn Desc
Image											

6. Document ID: US 20030100081 A1

L5: Entry 6 of 16

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100081

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100081 A1

TITLE: Process for the preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hermann, Thomas	Bielefeld		DE	
Witteck, Birgit	Dissen		DE	
Rieping, Mechthild	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/193, 435/252.33, 435/320.1, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KOMC	Drawn Desc
Image											

7. Document ID: US 20030100080 A1

L5: Entry 7 of 16

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100080

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100080 A1

TITLE: Nucleotide sequences which code for the sahH gene

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Farwick, Mike	Bielefeld		DE	
Huthmacher, Klaus	Gelnhausen		DE	
Brehme, Jennifer	Bielefeld		DE	
Pfefferle, Walter	Halle		DE	
Binder, Michael	Steinhagen		DE	
Greissinger, Dieter	Niddatal		DE	
Thierbach, Georg	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/252.33, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

8. Document ID: US 20030092138 A1

L5: Entry 8 of 16

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092138

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030092138 A1

TITLE: Process for the preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hermann, Thomas	Bielefeld		DE	
Witteck, Birgit	Dissen		DE	
Rieping, Mechthild	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/193, 435/252.33, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc
Image											

9. Document ID: US 20030087404 A1

L5: Entry 9 of 16

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087404

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030087404 A1

TITLE: Process for the preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hermann, Thomas	Bielefeld		DE	
Witteck, Birgit	Dissen		DE	
Rieping, Mechthild	Bielefeld		DE	

US-CL-CURRENT: 435/160; 435/194, 435/252.3, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KOMC	Drawn Desc
Image											

10. Document ID: US 20030073204 A1

L5: Entry 10 of 16

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030073204

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030073204 A1

TITLE: Process for the manufacture of D-pantothene acid and/or its salts by fermentation

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rieping, Mechthild	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/252.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KOMC	Drawn Desc
Image											

[Generate Collection](#)

[Print](#)

[Terms](#)

[Documents](#)

I3 and degus\$3.as.

16

[Display Format:](#) - [Change Format](#)

[Previous Page](#) [Next Page](#)

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 11 through 16 of 16 returned.****11. Document ID: US 20030064485 A1**

LS: Entry 11 of 16

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030064485

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030064485 A1

TITLE: Process for the preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hermann, Thomas	Bielefeld		DE	
Witteck, Birgit	Dissen		DE	
Rieping, Metchthild	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/193, 435/252.3, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Drawn Desc
Image											

12. Document ID: US 20020176884 A1

LS: Entry 12 of 16

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020176884

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020176884 A1

TITLE: Process for the fermentative preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dusch, Nicole	Werther		DE	
Marx, Achim	Halle		DE	
Pfefferle, Walter	Halle		DE	
Thierbach, Georg	Bielefeld		DE	

US-CL-CURRENT: 424/442; 435/106, 435/252.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KM/C	Draw Desc
Image											

13. Document ID: US 20020173010 A1

L5: Entry 13 of 16

File: PGPB

Nov 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020173010

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020173010 A1

TITLE: Process for preparation of D-pantothenic acid and/or salts thereof

PUBLICATION-DATE: November 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rieping, Mechthild	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/252.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KM/C	Draw Desc
Image											

14. Document ID: US 20020150999 A1

L5: Entry 14 of 16

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020150999

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020150999 A1

TITLE: Process for the fermentative preparation of D-pantothenic acid using coryneform bacteria

PUBLICATION-DATE: October 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dusch, Nicole	Werther		DE	
Thomas, Hermann	Bielefeld		DE	
Thierbach, Georg	Bielefeld		DE	

US-CL-CURRENT: 435/106; 435/193, 435/252.3, 435/320.1, 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KM/C	Draw Desc
Image											

15. Document ID: US 20020086373 A1

L5: Entry 15 of 16

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086373
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20020086373 A1

TITLE: Nucleotide sequences which code for the cysD, cysN, cysK, cysE and cysH genes

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Farwick, Mike	Bielefeld		DE	
Huthmacher, Klaus	Gelnhausen		DE	
Schischka, Natalie	Bielefeld		DE	
Bathe, Brigitte	Salzkotten		DE	
Pfefferle, Walter	Halle		DE	
Binder, Michael	Steinhagen		DE	
Greissinger, Dieter	Niddatal		DE	
Thierbach, Georg	Bielefeld		DE	

US-CL-CURRENT: [435/115](#); [435/193](#), [435/252.3](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw. Desc
Image											

16. Document ID: US 6623944 B2

L5: Entry 16 of 16

File: USPT

Sep 23, 2003

US-PAT-NO: 6623944

DOCUMENT-IDENTIFIER: US 6623944 B2

TITLE: Process for preparation of D-pantothenic acid and/or salts thereof

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rieping; Mechthild	Bielefeld			DE

US-CL-CURRENT: [435/146](#); [426/7](#), [435/190](#), [435/252.33](#), [435/320.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw. Desc
Image											

[Generate Collection](#)

[Print](#)

Terms	Documents
I3 and degus\$3.as.	16

=> d his

)
(FILE 'HOME' ENTERED AT 12:53:45 ON 21 NOV 2003)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS,
DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, ...' ENTERED AT 12:54:02 ON 21 NOV
2003

SEA PANTOTH? AND (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) AND (

2 FILE BIOTECHABS
2 FILE BIOTECHDS
3 FILE CAPLUS
13 FILE DGENE
1 FILE EMBASE
0* FILE FEDRIP
2 FILE FROSTI
5 FILE GENBANK
2 FILE IFIPAT
1 FILE RDISCLOSURE
2 FILE TOXCENTER
71 FILE USPATFULL
3 FILE USPAT2
2 FILE WPIDS
2 FILE WPINDEX

L1 QUE PANTOTH? AND (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) AND (

FILE 'USPATFULL, DGENE, GENBANK, CAPLUS, USPAT2' ENTERED AT 12:57:36 ON
21 NOV 2003

L2 95 S PANTOTH? AND (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) AND (PO
L3 92 DUP REM L2 (3 DUPLICATES REMOVED)
L4 21 S PANTOTH? (S) (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) (S) (PO
L5 21 DUP REM L4 (0 DUPLICATES REMOVED)

Welcome to STN International! Enter x:x

LOGINID: ssspta1652dmr

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the present
NEWS 4 AUG 05 New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 5 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 6 AUG 18 Data available for download as a PDF in RDISCLOSURE
NEWS 7 AUG 18 Simultaneous left and right truncation added to PASCAL
NEWS 8 AUG 18 FROSTII and KOSMET enhanced with Simultaneous Left and Right Truncation
NEWS 9 AUG 18 Simultaneous left and right truncation added to ANABSTR
NEWS 10 SEP 22 DIPPR file reloaded
NEWS 11 SEP 25 INPADOC: Legal Status data to be reloaded
NEWS 12 SEP 29 DISSABS now available on STN
NEWS 13 OCT 10 PCTFULL: Two new display fields added
NEWS 14 OCT 21 BIOSIS file reloaded and enhanced
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced

NEWS EXPRESS NOVEMBER 14 CURRENT WINDOWS VERSION IS V6.01c, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 12:53:45 ON 21 NOV 2003

```
=> index bioscience medicien  
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
'MEDICIEN' IS NOT A VALID FILE NAME  
ENTER A FILE NAME OR (IGNORE):medicine  
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
COST IN U.S. DOLLARS  
  
FULL ESTIMATED COST
```

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DDFB, DDFU, DGENE, DRUGR, DRUGLAUNCH' ENTERED AT 12:54:02 ON 21 NOV 2002

71 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view

search error messages that display as 0* with SET DETAIL OFF.

=> s pantoth? and (corynefor? or glutamic? or corynebact?) and (poxb? or (pyruvat?(s)oxidas?))

2 FILE BIOTECHABS
2 FILE BIOTECHDS
3 FILE CAPLUS
13 FILE DGENE
26 FILES SEARCHED...
1 FILE EMBASE
0* FILE FEDRIP
2 FILE FROSTI
5 FILE GENBANK
2 FILE IFIPAT
1 FILE RDISCLOSURE
59 FILES SEARCHED...
2 FILE TOXCENTER
71 FILE USPATFULL
3 FILE USPAT2
2 FILE WPIDS
2 FILE WPINDEX

14 FILES HAVE ONE OR MORE ANSWERS, 71 FILES SEARCHED IN STNINDEX

L1 QUE PANTOTH? AND (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) AND (POXB? OR (PYRUVAT?(S) OXIDAS?))

=> d rank
F1 71 USPATFULL
F2 13 DGENE
F3 5 GENBANK
F4 3 CAPLUS
F5 3 USPAT2
F6 2 BIOTECHABS
F7 2 BIOTECHDS
F8 2 FROSTI
F9 2 IFIPAT
F10 2 TOXCENTER
F11 2 WPIDS
F12 2 WPINDEX
F13 1 EMBASE
F14 1 RDISCLOSURE

=> file f1-f5
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
3.30 3.51

FILE 'USPATFULL' ENTERED AT 12:57:36 ON 21 NOV 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'DGENE' ENTERED AT 12:57:36 ON 21 NOV 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'GENBANK' ENTERED AT 12:57:36 ON 21 NOV 2003

FILE 'CAPLUS' ENTERED AT 12:57:36 ON 21 NOV 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 12:57:36 ON 21 NOV 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s pantoth? and (corynefor? or glutamic? or corynebact?) and (poxb? or (pyruvat?(s)oxidas?))

L2 95 PANTOTH? AND (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) AND (POXB?
OR (PYRUVAT?(S) OXIDAS?))

=> dup rem 12

DUPPLICATE IS NOT AVAILABLE IN 'DGENE, GENBANK'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L2
L3 92 DUP REM L2 (3 DUPLICATES REMOVED)

=> s pantothen? (s) (corynefor? or glutamic? or corynebact?) (s) (poxb? or
(pyruvat?(s)oxidasa?))
L4 21 PANTOTH? (S) (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) (S) (POXB?
OR (PYRUVAT?(S) OXIDASA?))

=> dup rem l4
DUPLICATE IS NOT AVAILABLE IN 'DGENE, GENBANK'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L4
L5 21 DUP REM L4 (0 DUPLICATES REMOVED)

=> d ti l4 l-24

L4 ANSWER 1 OF 21 USPATFULL on STN
TI Nucleotide sequence of the Mycoplasma genitalium genome, fragments
thereof, and uses thereof

L4 ANSWER 2 OF 21 USPATFULL on STN
TI Nucleotide sequence of the mycoplasma genitalium genome, fragments
thereof, and uses thereof

L4 ANSWER 3 OF 21 USPATFULL on STN
TI Corynebacterium glutamicum genes encoding metabolic pathway proteins

L4 ANSWER 4 OF 21 USPATFULL on STN
TI Process for the fermentative preparation of D-pantothenic acid using
coryneform bacteria

L4 ANSWER 5 OF 21 USPATFULL on STN
TI Aptamers specific for biomolecules and methods of making

L4 ANSWER 6 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from coryneform bacteria with reduced
activity of the pyruvate oxidase gene -

L4 ANSWER 7 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from coryneform bacteria with reduced
activity of the pyruvate oxidase gene -

L4 ANSWER 8 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from coryneform bacteria with reduced
activity of the pyruvate oxidase gene -

L4 ANSWER 9 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from coryneform bacteria with reduced
activity of the pyruvate oxidase gene -

L4 ANSWER 10 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from coryneform bacteria with reduced
activity of the pyruvate oxidase gene -

L4 ANSWER 11 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from coryneform bacteria with reduced
activity of the pyruvate oxidase gene -

L4 ANSWER 12 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from coryneform bacteria with reduced
activity of the pyruvate oxidase gene -

L4 ANSWER 13 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from **coryneform** bacteria with reduced
activity of the **pyruvate oxidase** gene -

L4 ANSWER 14 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from **coryneform** bacteria with reduced
activity of the **pyruvate oxidase** gene -

L4 ANSWER 15 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from **coryneform** bacteria with reduced
activity of the **pyruvate oxidase** gene -

L4 ANSWER 16 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from **coryneform** bacteria with reduced
activity of the **pyruvate oxidase** gene -

L4 ANSWER 17 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from **coryneform** bacteria with reduced
activity of the **pyruvate oxidase** gene -

L4 ANSWER 18 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
TI Fermentative production of D-pantothenic acid (I), useful e.g.
in animal nutrition, from **coryneform** bacteria with reduced
activity of the **pyruvate oxidase** gene -

L4 ANSWER 19 OF 21 GENBANK.RTM. COPYRIGHT 2003 on STN

TITLE (TI): Sequencing and analysis of the genome of the Whipple's
disease bacterium *Tropheryma whipplei*
TITLE (TI): Direct Submission

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2003 ACS on STN
TI Fermentative production of D-pantothenic acid using genetically engineered
Corynebacteria

L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2003 ACS on STN
TI Process for the fermentative preparation of D-pantothenic acid
using **coryneform** bacteria with **poxb** gene being
eliminated

=> d ibib abs 14 18 20 21

L4 ANSWER 18 OF 21 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
ACCESSION NUMBER: ABL58754 DNA DGENE
TITLE: Fermentative production of D-pantothenic acid (I),
useful e.g. in animal nutrition, from **coryneform**
bacteria with reduced activity of the **pyruvate
oxidase** gene -
INVENTOR: Dusch N; Herrmann T; Thierbach G
PATENT ASSIGNEE: (DEGS)DEGUSSA AG.
PATENT INFO: DE 10117085 A1 20020411 28p
APPLICATION INFO: DE 2001-10117085 20010406
PRIORITY INFO: DE 2000-10048604 20000930
DOCUMENT TYPE: Patent
LANGUAGE: German
OTHER SOURCE: 2002-363950 [40]
CROSS REFERENCES: P-PSDB: ABB79447
DESCRIPTION: *Corynebacterium poxB* encoding polynucleotide SEQ ID NO 1.
AN ABL58754 DNA DGENE
AB The invention relates to the fermentative production of D-
pantothenic acid (I) by growing a (I)-producing
coryneform bacterium in which the activity of at least the
sequence **poxB** (ABL58754, ABL58756) encoding **pyruvate
oxidase** (ABB58755, EC 1.2.2.2) has been weakened, especially
switched off. (I) is then recovered from medium or cells. (I) is a

vitamin useful in human medicine, the pharmaceutical and food industries and particularly in animal nutrition. Reducing the activity of **poxB** improves fermentative production of (I).

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:773699 CAPLUS
DOCUMENT NUMBER: 137:277936
TITLE: Fermentative production of D-pantothenic acid using genetically engineered Corynebacteria
INVENTOR(S): Dusch, Nicole; Marx, Achim; Pfefferle, Walter; Thierbach, Georg
PATENT ASSIGNEE(S): Degussa AG, Germany
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1247868	A2	20021009	EP 2002-1400	20020119
EP 1247868	A3	20021030		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
DE 10116519	A1	20021017	DE 2001-10116519	20010403
US 2002176884	A1	20021128	US 2001-983167	20011023
PRIORITY APPLN. INFO.: DE 2001-10116519 A 20010403 US 2001-983167 A 20011023				

AB A process is provided for the fermentative prodn. of D-pantothenic acid or its salts by fermn. with coryneform bacteria with the intended use as a feed additive. Specifically, the process calls for a coryneform bacteria where the gene *glyA* overexpression has been genetically engineered. Thus, the plasmid pVWEx2*glyA* was introduced into *Corynebacterium glutamicum* strain ATCC 13032.DELTA.*ilvA/pND-D2* by electroporation. The transformed strain produced 51 .mu.g/L of D-pantothenate compared to 30 .mu.g/L for the parent strain.

L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:276126 CAPLUS
DOCUMENT NUMBER: 136:308622
TITLE: Process for the fermentative preparation of D-pantothenic acid using **coryneform** bacteria with **poxB** gene being eliminated
INVENTOR(S): Dusch, Nicole; Hermann, Thomas; Thierbach, Georg
PATENT ASSIGNEE(S): Degussa A.-G., Germany
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002029020	A1	20020411	WO 2001-EP10212	20010905
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10117085	A1	20020411	DE 2001-10117085	20010406
AU 2001091825	A5	20020415	AU 2001-91825	20010905
EP 1320586	A1	20030625	EP 2001-972003	20010905
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002150999	A1	20021017	US 2001-965825	20011001

PRIORITY APPLN. INFO.: DE 2000-10048604 A 20000930
DE 2001-10117085 A 20010406
DE 2000-10047142 A 20000923
WO 2001-EP10212 W 20010905

AB The invention provides a process for the improved fermentative prepn. of D-pantothenic acid using **coryneform** bacteria in which the the nucleotide sequence of **poxB** gene which codes for **pyruvate oxidase** (EC 1.2.2.2) is attenuated, in particular eliminated. The following steps being carried out: (a) fermn. of D-pantothenic acid-producing bacteria in which at least the gene which codes for pyruvate oxidase PoxB is attenuated; (b) concn. of the D-pantothenic acid in the medium or in the cells of the bacteria; and (c) isolation of the D-pantothenic acid produced. The strains employed optionally already produce D-pantothenic acid before attenuation of the **poxB** gene. A new nucleotide sequences, which lie upstream and downstream of the **poxB** gene region have been found. It has been found that these polynucleotides are useful in the prodn. of mutants with an attenuated, in particular eliminated, **poxB** gene. It has also been found that **coryneform** bacteria produce **pantothenic** acid in an improved manner after attenuation of the **poxB** gene.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 12:53:45 ON 21 NOV 2003)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, ...' ENTERED AT 12:54:02 ON 21 NOV 2003

SEA PANTOTH? AND (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) AND (-----
2 FILE BIOTECHABS
2 FILE BIOTECHDS
3 FILE CAPLUS
13 FILE DGENE
1 FILE EMBASE
0* FILE FEDRIP
2 FILE FROSTI
5 FILE GENBANK
2 FILE IFIPAT
1 FILE RDISCLOSURE
2 FILE TOXCENTER
71 FILE USPATFULL
3 FILE USPAT2
2 FILE WPIDS
2 FILE WPINDEX

L1 QUE.PANTOTH? AND (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) AND (-----

FILE 'USPATFULL, DGENE, GENBANK, CAPLUS, USPAT2' ENTERED AT 12:57:36 ON 21 NOV 2003

L2 95 S PANTOTH? AND (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) AND (PO
L3 92 DUP REM L2 (3 DUPLICATES REMOVED)
L4 21 S PANTOTH? (S) (CORYNEFOR? OR GLUTAMIC? OR CORYNEBACT?) (S) (PO
L5 21 DUP REM L4 (0 DUPLICATES REMOVED)

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	63.93	67.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.30	-1.30

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:00:56 ON 21 NOV 2003